

APPENDIX D. EXAMPLE OF PRODUCT LABELS

HERCON DISRUPT II Gypsy Moth is a controlled-release phenomone dispenser formulation designed to lower incidence of gypsy moth, *Lymantria dispar*, mating by disrupting normal male flight orientation to females. This reduction in mating will help suppress the larval (caterpillar) population that causes damage by feeding on the leaves of hardwoods and evergreens.

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

At least two weeks before adult gypsy moth emergence, apply 30.4 grams active ingredient (170 grams (6 oz) of product) per application per acre using air or ground equipment. Apply a second application if adult gypsy moth emergence is extended or delayed. An inert sticker material should be used with DISRUPT II Gypsy Moth to hold flakes on treated foliage or plant parts. The Hercon applicator equipment is specifically designed to mix the proper amount of DISRUPT II Gypsy Moth flakes and inert sticker at the time of application.

Use in such areas as forests; residential, municipal and shade tree area; recreational areas such as campgrounds, golf courses, parks and parkways; ornamental, shade trees; forest plantings; shelter belts; and rights of way and other easements.

Application must be done by or under the supervision of a qualified person to insure proper rate and method of application

DISRUPT II Gypsy Moth can be used as a pest management tool by lowering incidence of gypsy moth mating in low-level populations. In areas of heavy infestation, DISRUPT II Gypsy Moth is recommended as a follow-up to beneficial treatments as part of an Integrated Pest Management program.

HERCON
Environmental

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HERCON

ENVIRONMENTAL

Aberdeen Road, Emigsville,

PA 17318-0467

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Hercon®

DISRUPT® II GYPSY MOTH MATING DISRUPTANT Population Suppressant

ACTIVE INGREDIENT:

[Z] - 7,8 - epoxy - 2 - methyl octadecane 17.9%

INERT INGREDIENTS: 82.1%

TOTAL: 100.0%

NET WEIGHT:

kg [lb]*

KEEP OUT OF REACH OF CHILDREN

CAUTION

Read Directions and Precautionary Statements Before Use

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Precautionary Statements: Keep out of reach of children. Do not open container until ready to use.
Personal Protective Equipment (PPE): Applicators and other handlers must wear long sleeved shirt and long pants, waterproof gloves and shoes plus socks. Follow manufacturers instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
User Safety Recommendations: Users should wash hands before eating, drinking, chewing gum, using tobacco products or using the toilet.

HAZARDS TO THE ENVIRONMENT

Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE AND DISPOSAL

Storage: Store in sealed containers in cool, dry place. Keep partially used containers tightly sealed.

Pesticide Disposal: Do not contaminate water, foods or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Wrap bag and place in trash collection.

Note: Use of pheromones and limiting the use of conventional insecticides will help maintain the population of beneficial parasites and predators. This can assist in biological control of gypsy moth and other pests, and therefore complement pest management. DISRUPT II Gypsy Moth can be used as a pest management tool by lowering the incidence of gypsy moth mating in low-level populations. In areas of heavy infestation, DISRUPT II Gypsy Moth is recommended as a follow-up to larvicidal treatments as part of an Integrated Pest Management program.

*9.5 kg [(8.7 lb)] of product will be sufficient to treat 50 acres at 30.4 g AI/acre

EPA REG. NO. 8730-55

EPA . 8730-PA-01

WARRANTY: Manufacturer warrants that this material conforms to the chemical description on the label. Manufacturer neither makes nor authorizes any agent or representative to make any other warranty of fitness or of merchantability, guarantee or representation, express or implied, concerning this material. Manufacturer's maximum liability for breach of this warranty shall not exceed the purchase price of this product. Buyer and user acknowledge and assume all risks and liabilities resulting from the handling, storage and use of this material, whether in accordance with directions or not.

Foray® 76B

Biological Insecticide
Flowable Concentrate

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki*, Lepidopteran

Active Toxin. 3.3%

INERT INGREDIENTS 96.7%

TOTAL 100.0%

POTENCY: 16,700 International Units (IU)/mg of product (equivalent to 76 billion IU/Gal). **Potency units should not be used to adjust use rates beyond those specified in the "directions for use" section.**

EPA Reg. No. 73049-49

EPA Est. No. 33762-IA-001

List No. 60176

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KEEP OUT OF REACH OF CHILDREN
CAUTION

For **MEDICAL** and **TRANSPORT** Emergencies

ONLY Call 24 Hours A Day 1-877-315-9819. For All Other
Information Call 1-800-323-9597.

1.0 STATEMENT OF PRACTICAL TREATMENT

If on Skin: Wash with plenty of soap and water. Get medical attention.

If in Eyes: Flush with plenty of water. Call a physician if eye irritation persists.

2.0 PRECAUTIONARY STATEMENTS

2.1 HAZARD TO HUMANS (AND DOMESTIC ANIMALS) CAUTION

Avoid contact with skin, eyes, open wounds or clothing. Causes moderate eye irritation.

2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

2.3 User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

2.4 Environmental Hazards

Do not contaminate water when disposing of equipment washwaters.

3.0 DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

4.0 STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal of waste.

Storage: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 25°C (77°F).

Pesticide Disposal: Pesticide waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with federal and local regulations.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTINUED

5.0 DIRECTIONS FOR NON-AGRICULTURAL APPLICATIONS

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes except for wide-area public pest control programs sponsored by government entities, such as mosquito abatement, gypsy moth control, and mediterranean fruit fly eradication.

For use on plants in non-crop and non-timber areas only. Not for use on crops, timber, or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

6.0 MIXING

Foray 76B contains the spores and endotoxin crystals of *Bacillus thuringiensis kurstaki*. Foray 76B is a stomach poison and is effective against lepidopterous larvae. After ingestion, larvae stop feeding within hours and die 2-5 days later. Maximum activity is exhibited against early instar larvae. Foray 76B may be used for both ground and aerial application. The product should be shaken or stirred before use. Add some water to the tank mix, pour the recommended amount of Foray 76B into the tank and then add the remaining amount of water to obtain the proper mix ratio. Agitate as necessary to maintain the suspension. The diluted mix should be used within 72 hours.

7.0 APPLICATION

Ground Application:

Use an adequate amount of tank mix to obtain thorough coverage without excessive run off. Use the recommended per acre dosages of Foray 76B in up to the following amounts of water:

High volume hydraulic sprayers	100 gallons
Mist blowers	10 gallons

Aerial Application:

Foray 76B may be applied aurally, either alone or diluted with water at the dosages shown in the application rates table. Spray volumes of 28-128 ounces per acre are recommended. Best results are expected when Foray 76B is applied to dry foliage.

8.0 APPLICATION RATES

Crop	Pests	Rate ¹ (oz/acre)	Dosage ¹ (BIU/acre)
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees, Ornamental Fruit, Nut and Citrus Trees ²	Gypsy Moth, Elm Spanworm	13.5-67.5	8-40
	Spruce Budworm, Browntail Moth, Douglas Fir Tussock Moth, Coneworm, Buck Moth	13.5-50.5	8-30
	Tussock Moth, Pine Butterfly, Bagworm, Leafroller, Tortrix, Mimosa Webworm, Tent Caterpillar, Jackpine Budworm, Blackheaded Budworm, Saddled Prominent, Saddleback Caterpillar, Eastern and Western Hemlock Looper, Orangestriped Oakworm, Satin Moth,	10.0-27.0	6-16
	Redhumped Caterpillar, Spring and Fall Cankerworm, California Oakworm, Fall Webworm	7.0-13.5	4-8

Special Instructions

¹ Use the higher recommended rates on advanced larval stages or under high density larval populations.

² In treating gypsy moth infested trees and shrubs in urban, rural, and semi-rural areas, exposure of non-target vegetation including, but not limited to, native and ornamental species and food or feed crops is permitted.

9.0 NOTICE TO USER

VALENT BIOSCIENCES CORPORATION MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USES WHICH EXTEND BEYOND THE USE OF THE PRODUCT UNDER NORMAL CONDITIONS IN ACCORD WITH THE STATEMENTS MADE ON THIS LABEL. IN NO CASE SHALL THE SELLER BE LIABLE FOR CONSEQUENTIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.



Thuricide® 76 LV

Aqueous Concentrate for Aerial or Ground Application

For Control of Ornamental, Shade Tree, and Forest Pests

ACTIVE INGREDIENT:

Bacillus thuringiensis variety *kurstaki* solids, spores,

and insecticidal toxins14.4%

INERT INGREDIENTS:85.6%

TOTAL:100.0%

*Equivalent to 19.0 billion International Units per quart.

The percentage active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration Number: 70051-72

EPA Establishment Number: 70051-CA-001

Net Contents: 5 gal., 53 gal., 250 gal., Bulk

Lot No.:

Made in U.S.A.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

Avoid inhalation or contact with eyes or open wounds.

As a general precaution when exposed to potentially high concentrations of living microbial products such as this, all mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, OR P-95.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

SPECIMEN LABEL

DIRECTIONS FOR NON-AGRICULTURAL APPLICATIONS

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes except wide-area public pest control programs sponsored by government entities, such as mosquito abatement, gypsy moth control, and mediterranean fruit fly eradication.

MIXING

Suspension must be shaken or stirred before use. Pour the recommended amount of THURICIDE® 76 LV into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. THURICIDE® 76 LV is formulated to provide desirable coverage and stickability on leaf surfaces. Additional adjuvants, spreaders, or stickers may be added but are not essential.

Do not apply this product through any type of irrigation system.

GROUND APPLICATION

Use adequate water to obtain good foliar coverage. Wet foliage but do not allow excessive run-off. Apply the recommended per acre rates of THURICIDE® 76 LV with the following suggested amounts of water:

- 100 gallons with high-gallonage hydraulic sprayers
- 10 gallons with mist blower

CERTIS

AERIAL APPLICATION

Apply Thuricide 76 LV at recommended rates by air either alone or as a spray mix diluted with water. Spray volumes of 3.2-67.2 ounces per acre are recommended. Best results are expected when Thuricide 76 LV is applied to dry foliage with a calibrated sprayer capable of obtaining droplet sizes below 300 microns and preferably in the range of 50-150 microns.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

APPLICATION RATES

Thorough coverage is essential when using Thuricide 76 LV. Use the lower rate for light to moderate infestations. Use the higher rates against heavier worm infestations.

Pest	Ounces Per Acre	Dosage g/L Per Acre	Directions
Spring Cankerworm	7-27	4-10	Apply when leaf expansion reaches 40-50% as infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, respray about 14 days after the first application.
Fall Cankerworm	7-27	4-10	
Elm Spanworm	7-27	4-10	
Tent Caterpillar	7-27	4-10	
Gypsy Moth	14-67	8-40	
Spruce Budworm	10-67	8-40	Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.
Douglas Fir Tussock Moth	7-27	4-10	Apply after eggs have hatched and early instar larvae are feeding on exposed foliage
Jack Pine Budworm	7-27	4-10	
Bagworms	7-27	4-10	
California Oak Moth	7-27	4-10	
Western Tussock Moth	7-27	4-10	
Fruit Tree Leafroller	7-27	4-10	
Minnow Webworm	7-27	4-10	
Redhumped Caterpillar	4-20	2-12	
Fall Webworm	4-14	2-8	
Pine Butterfly	10-40	6-24	
Whitemarked Tussock Moth	14-67	8-40	
Oakleaf Tier	14-67	8-40	
Eastern and Western Hemlock Looper	10-27	8-18	

Thuricide 76LV may be used in the following areas: forests, residential, municipal, and shade tree areas; recreational areas such as campgrounds, golf courses, parks, and parkways; ornamentals, shelterbelts, rights of way and other easements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage: Store in a cool place. Activity may be impaired by prolonged storage at temperatures above 90 F. Protect from freezing.

Pesticide Disposal: Wastes resulting from this product may be disposed on on-site or at an approved waste disposal facility.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Reuse of thoroughly cleaned container is allowable.

Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, by other procedures approved by state and local authorities. Reuse of thoroughly cleaned container is allowable.

WARRANTY

Certa USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. **NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.**

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011002 THUR76LV

CERTIS

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